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## SCIENCE:

A WEEKLY NEWSPAPER OF ALL THE ARTS AND SCIENCES.

PUBLISHED BY

N. D. C. HODGES,

47 LAFAYETTE PLACE, NEW YORK.

SUBSCRIPTIONS.—United States and Canada..... \$3.50 a year.

Great Britain and Europe..... 4.50 a year.

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Attention is called to the "Wants" column. All are invited to use it in soliciting information or seeking new positions. The name and address of applicants should be given in full, so that answers will go direct to them. The "Exchange" column is likewise open.

VOL. XV.

NEW YORK, APRIL 18, 1890.

No. 376.

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WE HAVE RECEIVED the prospectus of Barnard College, the institution founded last year in New York to enable women to receive collegiate instruction from the professors of Columbia College. The two corporations are distinct; but Columbia furnishes the teachers for the women's college, and confers the degrees upon its graduates. The new college was named after the late President Barnard of Columbia, in gratitude for his efforts in behalf of the higher education of women. The pamphlet now before us contains the requirements for admission to the Barnard, together with the courses of study during the freshman and sophomore years. The requirements for admission consist of the elements of Greek, Latin, and mathematics, with English grammar and composition and some history and geography. The studies of the first two years are in the same departments, with the addition of chemistry and botany and the French and German languages. It will be seen, therefore, that the founders of the new institution are no innovators, but have adopted the course of study usually pursued by young men. The studies thus far announced seem rather too largely technical, but probably those of the junior and senior years will be less so. Several post-graduate courses are also provided, with opportunity to obtain the degrees of master of arts, doctor of philosophy, doctor of letters, and doctor of science. On the whole, the programme promises well, and every friend of humanity will wish the new college God speed.

## THE MARINE BIOLOGICAL LABORATORY.

THE third session (1890) of the Marine Biological Laboratory will be held this summer. The corps of instructors consists of Dr. C. O. Whitman, director, professor of zoölogy, Clark University, editor of the *Journal of Morphology*; Howard Ayers, Ph.D., director of The Lake Laboratory, Milwaukee; E. G. Gardiner, Ph.D., instructor in zoölogy, Massachusetts Institute of Technology; I. Playfair McMurrich, Ph.D., docent in zoölogy, Clark University; J. S. Kingsley, Sc.D., professor of zoölogy, University of Nebraska; H. C. Bumpus, M.A., fellow in zoölogy, Clark University; W. M. Rankin, Ph.D., Princeton College; W. A. Setchell, B.A., assistant in botany, Harvard University; Takano Ryoiche, artist; G. W. Fitz, laboratory assistant.

In addition to the regular courses of instruction in zoölogy, botany, and microscopical technique, consisting of lectures and laboratory work under the direct and constant supervision of the instructors, there will be two or more courses of lectures on special subjects by members of the staff. One such course of six lectures will be given by Dr. McMurrich on the *Hydrozoa*. Similar courses on the *Crustacea* and echinoderms will be given by Professor Kingsley and Dr. Rankin. There will also be ten or more evening lectures on biological subjects of general interest. The first of these will be given by Dr. Whitman on July 9. Among those who may contribute these lectures and take part in the discussions upon them may be mentioned, in addition to the instructors above named, the following: Professors E. B. Wilson of Bryn Mawr, C. S. Minot of Harvard Medical School, W. T. Sedgwick of the Massachusetts Institute of Technology, S. F. Clarke of Williams College; Dr. G. Baur, recently of Yale University; Dr. Henry Orr, recently of the Universities of Jena and Princeton; Dr. C. H. Eigenmann, recently of the University of Indiana; Professor W. A. Locy of Lake Forest University; and William M. Wheeler of Milwaukee.

The laboratory is located on the coast at Wood's Holl, Massachusetts near the laboratories of the United States Fish Commission. It has already been found necessary to add to it this year a library, a lecture-room, and six more private laboratories. The building consists of two stories; the lower for the use of students receiving instruction, the upper exclusively for investigators. The laboratory has aquaria supplied with running sea-water, boats, collecting apparatus, and dredges; it will also be supplied with alcohol and other re-agents, glassware, and a limited number of microtomes and microscopes. By the munificence of friends the library will be provided henceforth not only with the ordinary text-books and works of reference, but also with the more important journals of zoölogy and botany, some of them in complete series. If the necessary funds can be obtained, the laboratory will also be provided with a steam-launch, and in any event there will be opportunities for collecting material for study and investigation.

The laboratory for investigators will be open from June 2 to Aug. 30. It will be fully equipped with aquaria, glassware, re-agents, etc., but microscopes and microtomes will not be provided. In this department there are fourteen private laboratories supplied with aquaria, running water, etc., for the exclusive use of investigators who are invited to carry on their researches here free of charge. Those who are prepared to begin original work, but require supervision, special suggestions, criticism, or extended instruction in technique, may occupy tables in the general laboratory for investigators, paying for the privilege a fee of fifty dollars. The number of such tables is limited to ten. Applicants for them should state precisely what they have done in preparation for original work, and whether they can bring a complete outfit; viz., microscope, microtome, camera-lucida, etc. Special attention is invited to the opportunities offered to the holders of these tables, as it is believed that they are somewhat unusual.

The laboratory for students will be opened on Wednesday, July 9, for regular courses of seven weeks in marine zoölogy and botany, and microscopical technique. Opportunities will be given for collecting and preparing material for use in the class-room and for special lines of study. Hand-lenses, dissecting-instruments, drawing-materials, etc., may be bought at cost in the lab-